

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
21 May 2004 (21.05.2004)

PCT

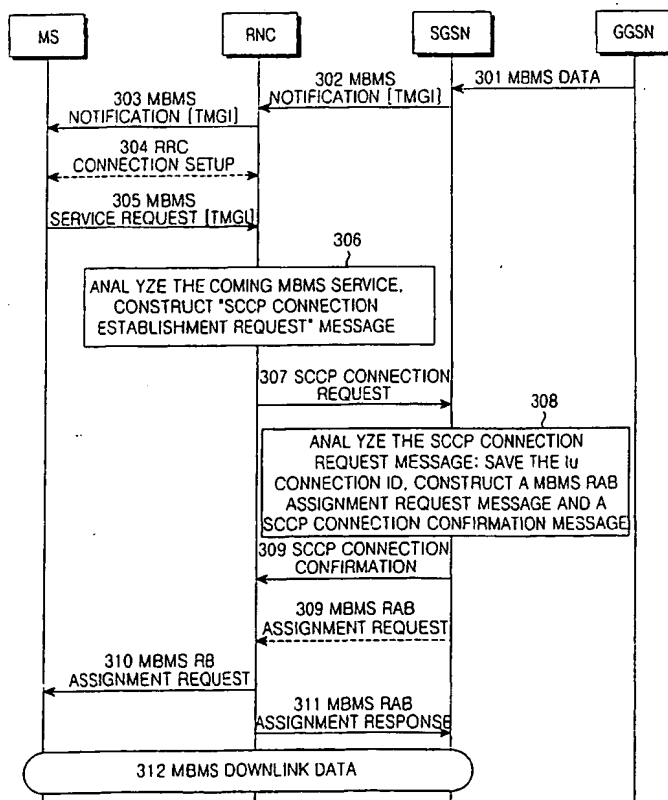
(10) International Publication Number
WO 2004/043021 A1

- (51) International Patent Classification⁷: H04L 12/56
- (21) International Application Number:
PCT/KR2003/002355
- (22) International Filing Date:
5 November 2003 (05.11.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
02 1 50342.7 5 November 2002 (05.11.2002) CN
- (71) Applicants (for all designated States except US): SAM-
SUNG ELECTRONICS CO., LTD. [KR/KR]; 416, Mae-
tan-dong, Yeongtong-gu, Suwon-si, Gyeonggi-do 442-742
(KR). BEIJING SAMSUNG TELECOM R & D CEN-
TER [CN/CN]; 4F Science and Technology Tower NO.11,
Zhongguancun Nan Lu, Haidian District, 100081 Beijing
(CN).

- (72) Inventors; and
- (75) Inventors/Applicants (for US only): CHOI, Sung-Ho
[KR/KR]; #157-401, Hwanggolmaeul APT., Yeong-
tong-dong, Paldal-gu, Suwon-si, 442-739 Gyeonggi-do
(KR). LEE, Kook-Heui [KR/KR]; #108-1004, Byucksan
1-cha APT., Suji-eup, Yongin-si, 449-755 Gyeonggi-do
(KR). GAO, Qinghai [CN/CN]; 4F Science and Tech-
nology Tower NO.11, Zhongguancun Nan Lu, Haidian
District, 100081 Beijing (CN). LI, Detao [CN/CN]; 4F
Science and Technology Tower NO.11, Zhongguancun
Nan Lu, Haidian District, 100081 Beijing (CN). XU,
Lixiang [CN/CN]; 4F Science and Technology Tower
NO.11, Zhongguancun Nan Lu, Haidian District, 100081
Beijing (CN).
- (74) Agent: LEE, Keon-Joo; Mihwa Bldg. 110-2, Myon-
gryun-dong 4-ga, Chongro-gu, 110-524 Seoul (KR).
- (81) Designated States (national): JP, KR, US.

[Continued on next page]

(54) Title: METHOD FOR MULTIMEDIA BROADCAST/MULTICAST SERVICE SIGNALING BEARER CONNECTION ON
IU INTERFACE



(57) Abstract: A method of signaling bearer connection on Iu interface for MBMS service, includes the following steps: (a) RNC receives a MBMS Notification message for a certain MBMS service from SGSN; (b) RNC constructs a MBMS Service Request message according to the contents of the notification; (c) RNC sends a SCCP Connection Request message to SGSN, requests to establish a SCCP signaling connection, and then waits for a reply; (d) RNC receives a SCCP Connection Confirmation message from SGSN. This invention solves the problem of signaling connection on Iu interface after MBMS service is introduced into the existing mobile communication system. The connection mode provided in this invention can reasonably utilize network resources, effectively reduce signaling congestion on Iu interface and reduce modifications to the existing Iu interface message.

WO 2004/043021 A1